

# A LEVEL: DESIGN & TECHNOLOGY (EDEXCEL)



## What will you learn?

A Level Design and Technology develops students' abilities to recognise design needs and develop an understanding of how global issues and the latest technologies have an impact on the world around them.

You will be taken through a cycle of iterative design to put the theory they learn along the way into practice on a real design, make and evaluate project.

Contextual design challenges in year 12 give you the freedom to be creative and take design risks and innovate in a situation where it is safe to test and refine ideas. Developing the confidence for year 13 to develop these skills further, to independently identify a real world design problem to solve in their own design brief with a client or end user.

You will develop a working knowledge of a wide range of materials and manufacture processes. A contextual grasp of mathematics (such as calculating surface areas and using trigonometry) as well as scientific principles (including Newton's laws of motion) are fully integrated to support students in becoming better designers.

## How will you be assessed?

This A level is assessed in two components, both of which happen in Year 13.

### Independent Design and Make Project (worth 50%)

This is a substantial design and make task that will take place in the first two terms of Y13. Like in GCSE, you will produce a design portfolio and product.

For further information about the course contact Mr Barham: [Mbarham@tkasa.org.uk](mailto:Mbarham@tkasa.org.uk)

“Design is not what it looks like.  
Design is how it works.”

**Steve Jobs**  
Co-Founder, Former Chairman  
and CEO of Apple inc.

### Principles of Design and Technology Exam (worth 50%)

At the end of the course there is a 2hr 30m written exam. It will cover knowledge of materials, processes and techniques that you will have used over the course. It will also assess you on your understanding design influences, legislation and technological advances.

### What could this lead to?

- Architect
- Automotive design
- Engineering
- Graphic design
- Interior design
- Product design



Examples of design and make projects made by former students of TKASA A level D&T.